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Scheme I[†]

- [†] a. Ac₂O, reflux
 - b. C6H5CH2OH/CH2Cl2
 - c. homoserine lactone hydrobromide, EDC, HCl, CH₂Cl₂, pyridine
 - d. Pd/C, H₂, EtOAc

FIG. 1.

e. NaH, 9, THF

f. p-TsOH, toluene, reflex

b. (1) BH3/THF, (2) NaOH, H2O2

a. K2CO3, BnBr, DMF

c. pyridinium dichromate, DMF

d. (COCI)2, toluene

g. EDCI, CH₂Cl₂, homoserine lactone hydrobromide, Hunig's base h. Pd/C (10%), H₂

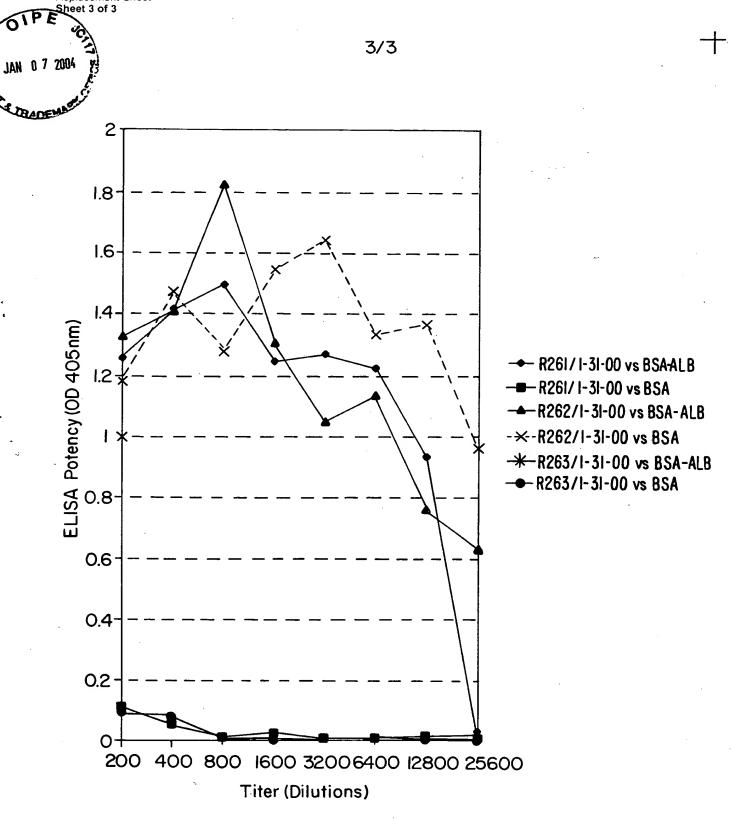


FIG. 3.